

Maple Plain Fire Department

Extrication Tool

Executive Summary

October, 2025

Brad Couser

10-10-2025

Purpose:

We are due to replace our outdated extrication equipment for the department. Our goal is to replace our outdated tools with newer, more modern tools. The newer technology has allowed for all these tools to operate on battery alone and be cord free. Without the cord acting as a tether restricting the working range of the tool, the newer tools will allow for a more versatile approach with how and when these tools will be utilized along with a much faster deployment due to not having to set up the power unit and hoses to operate the tool.

Selection of Tools:

When selecting the tools, we compared them based on weight, length and strength (both spreading and cutting). We rated the cutting strength using the NFPA cut ratings which are a series of letters denoting a successful cut through different sized and shaped materials. The spreaders do not have the same standardized ratings, so we compared those at max spreading force. Based on the above factors, we decided to look at tools from Holmatro, Hurst and Genesis. Each manufacturer came in and gave us a demo and overview of their tools. They explained the design and special features of each tool.

Evaluation:

To evaluate the tools, we brought all three manufacturers back in and compared them in a head-to-head fashion. We had three cars to cut up and were able to get hands on with the tools comparing them side by side. The tools were evaluated based on

- Fit and feel
- Weight
- Length
- Battery life
- Functionality
- Strength

For the cutter strength we specifically looked at the NFPA cut ratings and the maximum cut width. For the spreaders strength we specifically looked at spread distance and spreading force. Spread force is not measured to any standard and is based solely off the highest strength recorded for each given tool. I have attached a chart that shows the NFPA test and what each of the corresponding letters mean in the rating. I have also attached a spreadsheet with the specifics of each spreader and cutter we looked at.

Holmatro PCU50i and PSP50:

The Holmatro tools power to weight ratio on these tools are unmatched. They pack the biggest

punch while still maintaining a light enough weight to be maneuvered around and used above your head. The twist grip trigger is nice as it allows the user to manipulate the tool in any angle with just a twist of the handle. These tools are also very balanced as most of the weight is right near the handle. The 360-degree flexible handle also allows the user to position the tool any way needed to affect the cut or spread. The handle is also extremely flexible and won't break no matter how far it bends. The cutter has an offset head allowing for a more ergonomic position when making high or low cuts. This cutter is the only one of the three we looked at that offers an offset head. These tools also have a dedicated battery for the tool specifically designed to work to maximum efficiency in the tool. The tools have a fantastically long run time on them. To improve run time, the tool will go into standby mode where the pump stops but the tool stays ready. All that is needed to "wake" the tool up is to twist the grip and it will turn right back on. The negative for these tools is that the battery is mounted near the handle with the power button facing up. This could lead to the battery inadvertently being shut off/ power button being pressed.

Genesis SC240-Sli and S49-Sli:

The Genesis tools were quite heavy and long. Weighing in just over 1-2 pounds heavier than the competitors and is also the longest tools by about 2 inches. The tool was not very balanced and was found to be very front heavy causing the tool to be hard to manipulate and get into the right spot. Once they were in position, the tools cut and spread nicely. The tools were very awkward to try and manipulate because of their length and lack of balance. The front handle of the tool had the ability to adjust, and it was recommended that it was left loose to allow for easy adjustment. We found that when left loose, the handle would allow the tool to somewhat rotate while cutting. These tools are activated by a finger trigger, and it worked great when the tool was at waist height and oriented normally. Once the tools were moved or at a different level or orientation, the finger trigger was hard to use causing you to have to contort your body or potentially get into a bad spot to use the tool. The Genesis tools are powered by a Milwaukee battery platform that would allow us to use the batteries we already have on the trucks to power them. It was recommended however, that the tools have their own dedicated batteries. Because the batteries are not tool specific, the tools had about a 15-minute run time on them. To save battery life, the tool is designed to shut down and go into a standby mode. The tools would shut down within about 5 seconds of when you stop using them and to start again you would have to turn the battery power back on.

Hurst S789 and SP555E3:

The Hurst tools cut very nice and moved quickly while cutting and spreading. The weight was balanced however still a bit front heavy. The tools were easy to manipulate and move into the correct cutting and spreading spots, however, they were a little limited based on the bulky housing surrounding the tools. The tools are controlled by a rotary thumb dial which worked well in any

position. A nice feature of the Hurst tools was the light up direction arrows on the top so you could see if you were opening or closing the tool. Hurst also has a dedicated battery with a very good battery life. It is mounted on the back of the tool which causes the tools to be a bit longer. A negative for the tool besides the balance is that the tool's housing is a bit bulky making it awkward to position in certain spots. The cutter also doesn't offer an offset head, and the handle is rigid and fixed making it hard to position the tool in non-normal cuts and spreads.

Recommendation:

After the group's evaluation, it is our recommendation that we go with the Homlatro tools. The overall weight to strength and the functionality with the tools made it the best option for the department.

The group recommends that we go with the PCU50i cutter and the PSP50 spreader and the PTR50 Telescopic ram for Engine 12. The group also recommends 2 spare batteries per set of tools with accompanying chargers. I have attached a quote from Jefferson Fire and Safety for the above recommended tools.

Ultimate Safety Concepts, Inc.

DBA: Clarey's Safety Equipment

1725 Highway 14 East

Rochester, MN 55904

507-289-6749 or 800-558-8009 - Fax 507-289-5213

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☐ ORDER ☒ QUOTE

DATE	10-10-25	ACCOUNT #	
	BILL TO:		SHIP TO:
CUSTOMER:	MAPLE PLAIN FD		MAPLE PLAIN FD
ADDRESS			
CITY/STATE/ZIP			
CONTACT NAME:	BRAD COUSER		PO #
PHONE:		EMAIL	
FAX:		SHIPPING CHARGES QUOTED?	

FROM:	CORY LATNER	952-607-7225	
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NUMBER OF PAGES:	1
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WE ARE PLEASED TO QUOTE YOU ON THE FOLLOWING EQUIPMENT:

[illegible]

Equipment Management Company

22824 West Winchester Drive
Channahon, IL 60410
US
815-467-8762
Fax: 815-467-8763

Pending

Quote 12054

Order Date: 10/10/2025
Printed Date: 10/10/2025
Page: 1

Bill To:

Clarey's Safety Equipment
1725 Highway 14 East
Rochester, MN 55904
US

Ship To:

Maple Plain Fire Department

Maple Plain, MN 55359
US

Customer ID	Purchase Order		Valid Until	Ship Via	F.O.B.		Sales Rep	Ship From
CLAREY			/ /	Best Way			MCARL	DIRECT
Ord Qty			U.O.M. Description	Item Number	Item Status	Unit Price	Discount Tax Est Ship Date	Extended Price
1			EACH	1101469GRS	Sale	19,881.00000	0.000 N	19,881.00
			S49 SLi 28" Spreader 18V					10/10/2025
1			EACH	1101550GRS	Sale	17,815.50000	0.000 N	17,815.50
			SC240 SLi Nxt Gen Smooth Cut Blades 18V					10/10/2025
1			EACH	1100145GRS	Sale	14,215.50000	0.000 N	14,215.50
			22-54 SLi Tele Ram 18V					10/10/2025
Non Taxable Subtotal								51,912.00
Taxable Subtotal								0.00
Order Discount								0.00
								0.00
Order Total								51,912.00



Jefferson Fire and Safety, Inc.
7620 Donna Drive
Middleton, WI, 53562
Phone: 608-836-0068
Web: www.jeffersonfire.com

Quote

Order No: 226329
Order Date: 9/10/2025
Due Date: 9/10/2025
Salesperson: Tim Gerrits
Customer ID: 04401

BILL TO:		SHIP TO:		
Maple Plain Fire Department 1645 Pioneer Ave. Maple Plain MN 55359		Maple Plain Fire Department 1645 Pioneer Ave. Maple Plain MN 55359		
CUSTOMER P.O. NO.		TERMS	CONTACT	
		Net 20 Days	Brad Couser	
FOB POINT		SHIPPING TERMS	SHIP VIA	
			UPS	
ITEM	ITEM DESCRIPTION	QTY.	UNIT PRICE	EXT PRICE
HOL 159.000.224	Holmatro PCU50 Cutter Next Gen	1.00	12,739.68	12,739.68
HOL 159.000.237	Holmatro PSP50 Spreader Next Gen	1.00	13,683.94	13,683.94
HOL 159.000.227	Holmatro PTR50 Telescopic Ram Next Gen	1.00	11,253.94	11,253.94
HOL 151.004.315	Holmatro Battery PBPA288	6.00	790.00	4,740.00
HOL 151.000.742	Holmatro PBCH2 Battery Charger, 115 VAC	3.00	499.00	1,497.00
HOL 151.000.503	Holmatro DCPC1 Pentheon Daisy Chain Power Cord	2.00	15.00	30.00
HOL 151.001.902	Holmatro TRE05 Pentheon Extension Pipe	1.00	886.55	886.55
HOL 150.182.044	Holmatro Tool Station Tarp	1.00	0.00	0.00

Signature

Date

Where applicable, freight and/or tariff surcharge will be added to the invoice. All returns must be received within 30 days of delivery and may be subject to a 25% restocking fee. Custom orders cannot be returned. Visit our website for complete details: www.jeffersonfire.com

*** Credit card payments will incur a 3% processing fee ***

Sales Total:	44,831.11
Freight:	0.00
Tax Total:	0.00
Total (USD):	44,831.11

May 28, 2025

To Whom It May Concern:

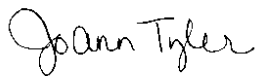
The purpose for this letter is to certify that as of this date, the sole factory authorized source of sales and service for Holmatro Rescue Equipment in the Minnesota counties of Anoka, Benton, Big Stone, Blue Earth, Brown, Carver, Chippewa, Chisago, Cottonwood, Dakota, Dodge, Douglas, Faribault, Fillmore, Freeborn, Goodhue, Grant, Hennepin, Houston, Isanti, Jackson, Kanabec, Kandiyohi, Lac qui Parle, Le Sueur, Lincoln, Lyon, Martin, McLeod, Meeker, Mille Lacs, Morrison, Mower, Murray, Nicollet, Nobles, Olmsted, Pine, Pipestone, Pope, Ramsey, Redwood, Renville, Rice, Rock, Scott, Sherburne, Sibley, Stearns, Steele, Stevens, Swift, Todd, Traverse, Wabasha, Waseca, Washington, Watonwan, Winona, Wright, and Yellow Medicine will be:

Jefferson Fire & Safety Inc
7620 Donna Dr
Middleton WI 53562
608-836-0068

For your sales and service solutions, please contact Tyler Jefferson directly at 608-692-1786.

If you need any further information, or if I can be of assistance in any other way, please feel free to contact me as well.

Kind regards,



JoAnn Tyler
National Sales Manager
443-758-5495